SEQUENCE LISTING

<110> Howard Florey Institute of Experimental Physiology and Medicine
The University of Melbourne

<120> Relaxin Superfamily Peptide Analogues

<130> 12262441/PAS/SET

<150> AU 2003903124
<151> 2003-06-20

<160> 25

<170> PatentIn version 3.1

<210> 1
<211> 28
<212> PRT
<213> relaxin-1 b-chain

<400> 1

Lys Trp Lys Asp Asp Val Ile Lys Leu Cys Gly Arg Glu Leu Val Arg
1 5 10 15

Ala Gln Ile Ala Ile Cys Gly Met Ser Thr Trp Ser
20 25

<210> 2
<211> 29
<212> PRT
<213> relaxin-2 b-chain

<400> 2

Asp Ser Trp Met Glu Glu Val Ile Lys Leu Cys Gly Arg Glu Leu Val
1 5 10 15

Arg Ala Gln Ile Ala Ile Cys Gly Met Ser Thr Trp Ser
20 25

<210> 3
<211> 26
<212> PRT
<213> relaxin-3 b-chain

<400> 3

Arg Ala Ala Pro Tyr Gly Val Arg Leu Cys Gly Arg Glu Phe Ile Arg
1 5 10 15

Ala Val Ile Phe Thr Cys Gly Gly Arg Trp
20 25

<210> 4
<211> 30
<212> PRT
<213> insulin b-chain

<400> 4

Phe Val Asn Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr
1 5 10 15

Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Pro Lys Thr
20 25 30

<210> 5
<211> 29
<212> PRT
<213> IGF-1 b-chain

<400> 5

Gly Pro Glu Thr Leu Cys Gly Ala Glu Leu Val Asp Ala Leu Gln Phe
1 5 10 15

Val Cys Gly Asp Arg Gly Phe Tyr Phe Asn Lys Pro Thr
20 25

<210> 6
<211> 31
<212> PRT
<213> IGF-2 b-chain

<400> 6

Tyr Arg Pro Ser Glu Thr Leu Cys Gly Gly Glu Leu Val Asp Thr Leu
1 5 10 15

Gln Phe Val Cys Gly Asp Arg Gly Phe Tyr Phe Ser Arg Pro Ala
20 25 30

<210> 7
<211> 31
<212> PRT
<213> INSL-3 b-chain

<400> 7

Pro Thr Pro Glu Met Arg Glu Lys Leu Cys Gly His His Phe Val Arg

1 5 10 15

Ala Leu Val Arg Val Cys Gly Gly Pro Arg Trp Ser Thr Glu Ala
20 25 30

<210> 8
<211> 33
<212> PRT
<213> INSL-4 b-chain

<400> 8

Glu Ser Leu Ala Ala Glu Leu Arg Gly Cys Gly Pro Arg Phe Gly Lys
1 5 10 15

His Leu Leu Ser Tyr Cys Pro Met Pro Glu Lys Thr Phe Thr Thr Thr
20 25 30

Pro

<210> 9
<211> 33
<212> PRT
<213> INSL-5 b-chain

<400> 9

Val Arg Ser Lys Glu Ser Val Arg Leu Cys Gly Leu Glu Tyr Ile Arg
1 5 10 15

Thr Val Ile Tyr Ile Cys Ala Ser Ser Arg Trp Arg Arg His Leu Glu

20 25 30

Gly

<210> 10
<211> 33
<212> PRT
<213> INSL-6 b-chain

<400> 10

Ser Asp Ile Ser Ser Ala Arg Lys Leu Cys Gly Arg Tyr Leu Val Lys
1 5 10 15

Glu Ile Glu Lys Leu Cys Gly His Ala Asn Trp Ser Gln Phe Arg Phe
20 25 30

Glu

<210> 11
<211> 25
<212> PRT
<213> cyclic relaxin b-chain mimetic

<400> 11

Ser Cys Met Glu Glu Val Ile Lys Leu Ser Gly Arg Glu Leu Val Arg
1 5 10 15

Ala Gln Ile Ala Ile Ser Gly Cys Ser

20 25

<210> 12
<211> 27
<212> PRT
<213> INSL-3 b-chain based peptide analogue 4

<400> 12

Thr Pro Cys Met Arg Glu Lys Leu Ser Gly His His Phe Val Arg Ala
1 5 10 15

Leu Val Arg Val Ser Gly Gly Pro Cys Trp Ser
20 25

<210> 13
<211> 27
<212> PRT
<213> INSL-3 b-chain based peptide analogue 5

<400> 13

Thr Pro Cys Met Arg Glu Lys Leu Ser Gly Arg His Phe Val Arg Ala
1 5 10 15

Leu Val Arg Val Ser Gly Gly Pro Cys Trp Ser
20 25

<210> 14
<211> 27
<212> PRT
<213> INSL-3 b-chain based peptide analogue 6

<400> 14

Thr Pro Cys Met Arg Glu Lys Leu Ser Gly Arg Glu Leu Val Arg Ala
1 5 10 15

Gln Val Ile Ala Ile Gly Gly Pro Cys Trp Ser
20 25

<210> 15
<211> 27
<212> PRT
<213> INSL-3 b-chain based peptide analogue 7

<400> 15

Thr Cys Glu Met Arg Glu Lys Leu Ser Gly His His Phe Val Arg Ala
1 5 10 15

Leu Val Arg Val Ser Gly Gly Cys Arg Trp Ser
20 25

<210> 16
<211> 24
<212> PRT
<213> relaxin-1 a-chain

<400> 16

Arg Pro Tyr Val Ala Leu Phe Glu Lys Cys Cys Leu Ile Gly Cys Thr
1 5 10 15

Lys Arg Ser Leu Ala Lys Tyr Cys
20

<210> 17
<211> 24
<212> PRT
<213> relaxin-2 a-chain

<400> 17

Gln Leu Tyr Ser Ala Leu Ala Asn Lys Cys Cys His Val Gly Cys Thr
1 5 10 15

Lys Arg Ser Leu Ala Arg Phe Cys
20

<210> 18
<211> 24
<212> PRT
<213> relaxin-3 a-chain

<400> 18

Asp Val Leu Ala Gly Leu Ser Ser Ser Cys Cys Lys Trp Gly Cys Ser
1 5 10 15

Lys Ser Glu Ile Ser Ser Leu Cys
20

<210> 19
<211> 26
<212> PRT
<213> insulin a-chain

<400> 19

Ser Leu Gln Lys Arg Gly Ile Val Glu Gln Cys Cys Thr Ser Ile Cys
1 5 10 15

Ser Leu Tyr Gln Leu Glu Asn Tyr Cys Asn
20 25

<210> 20
<211> 25
<212> PRT
<213> IGF-1 a-chain

<400> 20

Ala Pro Gln Thr Gly Ile Val Asp Glu Cys Cys Phe Arg Ser Cys Asp
1 5 10 15

Leu Arg Arg Leu Glu Met Tyr Cys Ala
20 25

<210> 21
<211> 25
<212> PRT
<213> IGF-2 a-chain

<400> 21

Arg Arg Ser Arg Gly Ile Val Glu Glu Cys Cys Phe Arg Ser Cys Asp
1 5 10 15

Leu Ala Leu Leu Glu Thr Leu Cys Ala
20 25

<210> 22
<211> 26
<212> PRT
<213> INSL3 a-chain (Ley I-L/RLF)

<400> 22

Ala Ala Ala Thr Asn Pro Ala Arg Tyr Cys Cys Leu Ser Gly Cys Thr
1 5 10 15

Gln Gln Asp Leu Leu Thr Leu Cys Pro Tyr
20 25

<210> 23
<211> 25
<212> PRT
<213> INSL4 a-chain (placentin/EPIL)

<400> 23

Arg Ser Gly Arg His Arg Phe Asp Pro Phe Cys Cys Glu Val Ile Cys
1 5 10 15

Asp Asp Gly Thr Ser Val Lys Leu Cys
20 25

<210> 24
<211> 24
<212> PRT
<213> INSL5 a-chain

<400> 24

Met Ser Arg Gln Asp Leu Gln Thr Leu Cys Cys Thr Asp Gly Cys Ser
1 5 10 15

Met Thr Asp Leu Ser Ala Leu Cys
20

<210> 25
<211> 24
<212> PRT
<213> INSL6-a-chain

<400> 25

Arg Lys Arg Arg Gly Tyr Ser Glu Lys Cys Cys Leu Thr Gly Cys Thr
1 5 10 15

Lys Glu Glu Leu Ser Ile Ala Cys
20